

# MegaRAID SCSI 320-1LP Ultra320 RAID Adapter

## FEATURES

- Single channel Ultra320 SCSI RAID storage adapter
  - Internal Connector mounted vertically
- Ships with low profile bracket only
- IA-64 Ready
- Intel® GC80302 integrated I/O processor
- 64-bit, 66 MHz PCI
- RAID levels 0, 1, 5, 10, and 50 supported
- Integrated 64 MB ECC SDRAM cache memory
- Advanced management and configuration utilities
- Supports up to 40 logical drives per adapter and 15 physical drives per logical array
- Auto resume during array reconstruction
- Background initialization for Quick RAID 5 setup
- FlexRAID®:
  - Online capacity expansion
  - Online RAID level migration



*Targeted for server environments, the MegaRAID® SCSI 320-1LP PCI SCSI RAID adapter allows OEMs and system integrators to vertically mount a RAID card into 2U rack chassis. The adapter also features a vertically mounted internal SCSI connector to facilitate cable connectivity.*

## MAXIMUM DATA THROUGHPUT IN A COST-EFFECTIVE, SPACE SAVING, SINGLE-CHANNEL ADAPTER DESIGNED FOR 2U CHASSIS WITH INTERNAL STORAGE REQUIREMENTS

With support for 64-bit addressing and a full RAID feature set, the MegaRAID SCSI 320-1 delivers unsurpassed data throughput and fault tolerance for your mid-range server or performance workstation. Quick installation and setup capabilities along with easy-to-use management utilities make the MegaRAID SCSI 320-1 the first choice of OEMs, system integrators and value added resellers (VARs) worldwide.

Designed around LSI Logic's next-generation I/O technology - Fusion-MPT™ (Message Passing Technology) - the MegaRAID SCSI 320-1 leverages a streamlined firmware-level programming interface and advanced hardware designs to offer unequalled I/O efficiency and performance. The MegaRAID SCSI 320-1 also incorporates a space-saving MD2 (low-profile PCI) form factor, increasing available space, even in the most limited server and workstation enclosures.

## WARRANTY

LSI Logic RAID storage adapters provide high-performance SCSI and IDE solutions to leading server, disk array and computer systems worldwide. Using only the highest quality components, LSI Logic RAID storage adapters are assembled in world-class facilities to assure superior product reliability and performance. Because of stringent quality management programs, our RAID storage adapters carry a three-year limited warranty.



# MegaRAID SCSI 320-1LP Ultra320 RAID Adapter

## Adapter Specifications

MD2 size (low profile) PCI card (6.60" x 2.54")  
One LSI531020 single-channel Ultra320 SCSI controller

- One external P68 VHDCI connector
- One internal P68 UHDI connector mounted vertically

Intel® GC80302 integrated I/O processor

- Hardware XOR engine for parity

Integrated 64 MB ECC SDRAM cache memory  
Low profile bracket only  
Universal 64-bit, 66 MHz PCI  
PCI 2.2 compliant  
PC 99 compliant  
ACPI support

## RAID Features

RAID levels 0, 1, 5, 10, and 50 supported  
Background initialization for Quick RAID 5 setup  
40 logical drives per controller and 15 physical drives per logical array  
Auto resume during array rebuild or reconstruction if the system shuts down  
Variable stripe size for all logical drives  
Supports multiple caching policies on a logical drive basis:

- Write-back/Write-through, Read-ahead: Disable/Enable/Adaptive, and Cache/Direct I/O

## Fault Tolerance

COD - Configuration On Disk and NVRAM  
Auto detection of failed drives  
Automatic and transparent rebuild of hot spare drives  
Hot swapping new drives w/o bringing system down  
Battery backed cache memory (optional)  
Support for SAF-TE enclosure management  
SMART support

## Universal Driver Suite

Microsoft Windows NT® 4.0/2000/XP/.NET (32-bit and 64-bit)  
Linux® Redhat® 7.3, 8.0 and 9.0  
Novell® NetWare® 5.1 and 6.0 Server  
Suse Linux 8.1  
Suse Enterprise Server 8.0  
SCO Openserver 5.X  
SCO UnixWare driver 7.X  
DOS 6.XX

## Online Management Utility Options

Power Console® Plus for Windows NT/2000/XP/.NET (32-bit and 64-bit)

- Creates and manages multiple disk arrays, controls and monitors multiple RAID servers

MegaManager

- Advanced character-based configuration and management utility for all OSs supported

## Pre Boot Configuration Utility Options

WebBIOS™

- Browser-based BIOS configuration utility for point-and-click MegaRAID configuration

Hot key "Boot-up" configuration via BIOS

- Array and logical drive configuration utility at the BIOS level

For more information please visit the LSI Logic web site at:

<http://megaraid.lsillogic.com>

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ISO 9001 Certified

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